

Released: JULY 17, 2000  
Issue No. CW-19-00

MINNESOTA AGRICULTURAL STATISTICS SERVICE IN COOPERATION WITH THE NATIONAL WEATHER SERVICE  
TWIN CITIES INT'L AIRPORT, UNIV. OF MINN. EXTENSION SERVICE, AND STATE CLIMATOLOGY, DNR

CROP CONDITIONS IMPROVE

Hot, humid weather generally improved crop conditions across the state, according to the Minnesota Agricultural Statistics Service. Row crops in Norman county have begun growing again in once flooded fields, however, small grains are suffering from diseases. Fillmore and Freeborn counties have fields flooded again. Hail damaged crops in Pope and Lyon counties. High points in Pipestone county are starting to show stress from hot temperatures and lack of rain, however the majority of the state, has adequate topsoil moisture.

Corn height increased an average of 16 inches to 63 inches, compared with 59 inches this time last year. The 5-year average is 57 inches. Tasseling has begun on 29% of the acres, versus 22% for both this same time last year and the 5-year average. Corn condition is rated as 77% good to excellent, improving 4 points from the previous week.

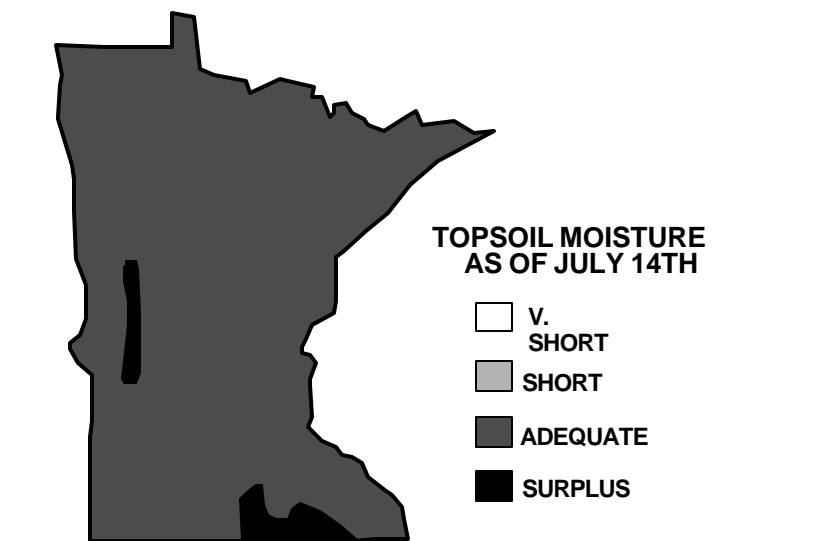
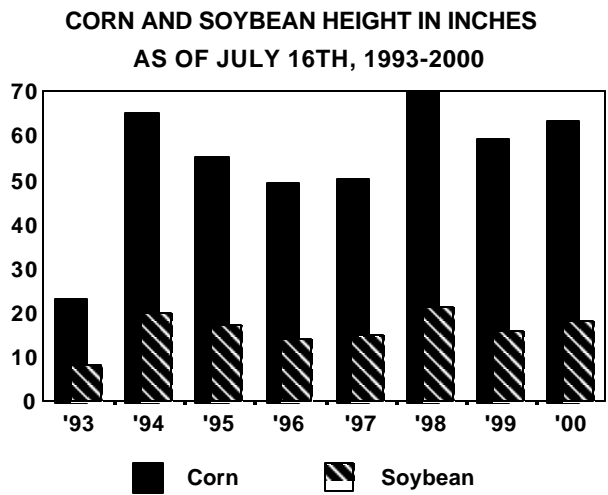
Average soybean height is 18 inches, versus 16 inches a year ago, and the 5-year average of 17. Soybeans are 55% blooming, versus 43% for last year and the 5-year average of 38%. Soybeans have begun setting pods on 4% of the acres, the same as last year, and compares to 5% for the 5-year average. Soybeans seem to be showing signs of chlorosis in more fields across the state than usual. Root rot, from excess soil moisture, is becoming a problem in some counties including Grant and Traverse. Despite isolated difficulties, soybean condition is rated as 64% good to excellent, up 2 points from the previous week.

Spring wheat is 30% turning ripe, versus 21% for the 5-year average. Oats are 62% turning ripe; barley 40%. Spring wheat conditions are rated as 71% good to excellent, up 5 points. Reports of army worms are beginning to cause damage to wheat and barley in Polk county, and wheat in Grant county.

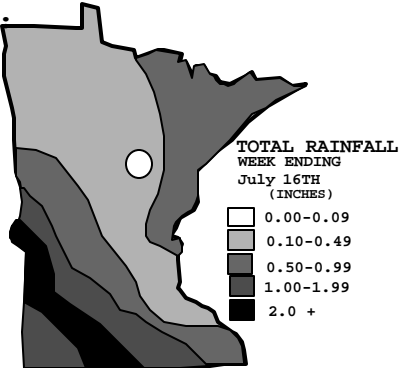
Days Suitable for Fieldwork: 3.9					
		Very Short	Short	Ade-quate	Surplus
Topsoil Moisture (%)		0	3	84	13
Crop Progress as of July 16, 2000					
Crop	Stage of Development	5 Yr Avg	Last Year	Last Week	This Week
-----Percent-----					
Corn	Height-inches	57	59	47	63
	Tasseling	22	22	4	29
Soybeans	Height-inches	17	16	13	18
	Blooming	38	43	26	55
Spring Wheat	Setting Pods	5	4	NA	4
	Heading	87	89	96	99
Barley	Turning ripe	21	23	9	30
	Heading	86	89	95	98
Oats	Turning ripe	20	25	11	40
	Heading	96	95	96	99
Rye	Turning ripe	38	46	30	62
	Harvested	0	0	NA	2
	Harvested	6	1	NA	1
Crop Condition as of July 14th in %					
	V.Poor	Poor	Fair	Good	Exc.
Pasture	0	2	21	62	15
Barley	1	10	20	54	15
Spring Wheat	1	3	25	54	17
Oats	1	2	15	62	20
Corn	1	2	20	52	25
Soybeans	2	6	28	47	17
Dry Beans	12	9	34	37	8
Potatoes	3	7	24	40	26
Sunflowers	2	7	20	60	11
Canola	1	5	23	40	31
Sugarbeets	1	2	18	46	33

Height in Inches as of July 14th								
CROP	NW	NC	WC	CENT	EC	SW	SC	SE
Corn	38	38	62	61	39	62	63	62
Soybean	10	11	18	19	14	19	16	16

Topsoil moisture conditions across the state were rated 3% short, 84% adequate, and 13% surplus as of Friday.



PRECIPITATION AND TEMPERATURES FOR THE WEEK ENDING JULY 16,2000:  
Temperatures averaged from 1.9 degrees above normal in the South Central District to 3.0 degrees above normal in the Southeast District. Extremes: 48° in Hibbing; 92° in Hutchinson, Pipestone, and Winona. Precipitation averaged from 0.57 inch below normal in the East Central District to 1.67 inches above normal in the South Central District. Greatest weekly total was 4.76 inches.



Corn growing degree days (GDD) are calculated by subtracting a 50 degree base temperature from the average of the maximum and minimum temperature for the day. The daily maximum is limited to 86 degrees and minimum to 50 degrees.

Precipitation and Temperature Summary for 07/10/2000 through 07/16/2000

	Temperature				Precipitation				G D D	
	High	Low	Week Ave	Depart from Norm	Week Total	Depart Past Week	Four Weeks	From Norm Since 4/1	Since Apr 28	Depart from Norm
<u>NW DIST 1</u>										
Crookston	84	59	71.7	2.0	.49	-.13	2.49	1.80	1053	-9
Moorhead	87	60	72.4	1.3	.43	-.18	7.67	9.34	1112	-14
Warroad	84	57	70.8	3.4	.18	-.59	1.05	2.00	892	-11
<u>NC DIST 2</u>										
Grand Rapids	88	54	71.6	4.2	.17	-.72	-1.09	-.13	1006	85
Intl. Falls	83	51	68.1	1.2	.97	.14	.54	.72	855	-33
Itasca	85	53	70.1	2.5	.16	-.59	.36	-.02	940	13
<u>NE DIST 3</u>										
Duluth	84	54	67.6	1.4	.65	-.15	1.58	.86	778	-11
Grand Marais	87	49	63.2	2.1	.59	-.15	.02	-1.95	393	-153
Hibbing	83	48	69.0	3.2	.95	.09	.26	.94	894	73
<u>WC DIST 4</u>										
Alexandria	84	61	71.5	-.0	.50	-.17	-2.29	-3.28	1065	-72
Browns Valley	88	59	74.6	2.4	2.82	2.15	3.15	1.07	1191	19
Canby	90	61	76.2	2.2	3.19	2.32	2.64	4.38	1307	27
Fergus Falls	86	64	74.4	3.8	.96	.22	.30	1.12	1164	65
Montevideo	86	59	74.4	1.8	1.24	.56	-.04	.97	1269	33
Morris	86	58	72.8	1.9	.95	.19	1.09	1.39	1197	64
<u>CENT DIST 5</u>										
Becker	91	59	75.7	5.3	.14	-.72	.52	-1.79	1226	136
Hutchinson	92	62	76.6	4.0	.77	.01	3.24	2.97	1379	150
Olivia	88	61	74.4	1.2	1.00	.23	1.19	2.00	1260	-15
St. Cloud	88	56	71.9	1.6	.21	-.45	-1.20	-3.45	1134	52
Staples	85	55	71.6	2.8	.38	-.47	.38	1.44	1036	26
Willmar	88	61	74.7	2.8	.87	.09	1.23	-.35	1218	16
<u>EC DIST 6</u>										
Aitkin	85	50	70.8	2.5	.04	-.89	-1.20	.91	957	-13
Cambridge	85	55	70.8	.4	.80	-.05	2.92	1.61	1039	-58
MSP Airport	88	65	76.5	2.7	.20	-.59	3.27	3.26	1307	32
St. Paul - UofM	90	63	76.4	2.4	.14	-.75	3.30	1.90	1358	22
<u>SW DIST 7</u>										
Lamberton	89	62	74.8	2.3	2.68	1.81	1.89	3.21	1299	37
Pipestone	92	61	75.7	4.1	1.09	.30	-1.51	2.64	1263	97
Redwood Falls	89	60	75.6	1.6	1.20	.25	1.70	3.07	1346	4
Worthington	90	60	74.6	2.8	1.22	.48	.04	1.29	1280	84
<u>SC DIST 8</u>										
Faribault	89	51	71.8	-.2	1.28	.32	2.57	6.97	1217	16
Waseca	87	63	75.4	4.0	1.82	.87	3.82	8.61	1320	119
Winnebago	87	59	74.2	2.0	4.76	3.81	3.84	8.39	1312	81
<u>SE DIST 9</u>										
Preston	87	58	73.3	2.8	1.79	.85	.39	9.36	1253	132
Red Wing	90	65	75.6	5.4	.44	-.55	2.01	2.99	1256	182
Rochester	84	62	73.2	2.1	.76	-.20	4.03	14.07	1194	37
Rosemount	88	63	74.5	1.9	.18	-.73	6.01	5.65	1278	31
Winona	92	61	76.6	3.6	.58	-.34	-.59	4.13	1358	125

The MINNESOTA CROP-WEATHER REPORT (USPS-387190) is published weekly in April through November (crop season). Subscription rates are \$15.00 per year for non-reporters and free to survey respondents by the Minnesota Agricultural Statistics Service, P O Box 7068, St. Paul, MN 55107. Periodicals postage paid at St. Paul, Minnesota and other mailing offices. Postmaster: Send address changes to the MINNESOTA CROP-WEATHER REPORT, P O Box 7068, St. Paul, MN 55107.